

HI-LITE™ PIN

HI-LITE™ PIN AND COLLAR AFTER ASSEMBLY

FIRST DASH NO.	PIN NOM DIA	A DIA REF	A' DIA	B REF	D DIA	TD DIA	F	G REF	H REF	M FLAT DIA	P GAGE PROT.	R RAD	V GAGE DIA	Z REF	S CHAMFER REF	THREAD MODIFIED	SOCKET			DOUBLE SHEAR POUNDS MINIMUM	TENSION POUNDS MINIMUM
																	W HEX	T DEPTH	Y DIA		
5	5/32	.2605 .2532	.2460 .2410	.280	.1635 .1625	.1595 .1570	.004	.0035	.040	.130 .120	.0286 .0256	.025 .015	.2028 .2026	.010	1/32 x 37°	.1640-32 UNJC-3A	.0806 .0791	.100 .080	.104 .094	4,010	1,290
6	3/16	.3011 .2937	.2865 .2815	.290	.1895 .1885	.1840 .1810	.005	.0035	.046	.161 .151	.0282 .0252	.030 .020	.2441 .2439	.010	1/32 x 37°	.1900-32 UNJF-3A	.0806 .0791	.100 .080	.119 .104	5,380	2,000
7	7/32	.3497 .3425	.3353 .3303	.305	.2182 .2172	.2100 .2070	.006	.0045	.053	.175 .165	.0268 .0238	.030 .020	.2982 .2980	.010	1/32 x 37°	.2160-28 UNJF-3A	.0806 .0791	.100 .080	.119 .104	7,110	2,750
8	1/4	.3944 .3871	.3795 .3745	.320	.2495 .2485	.2440 .2410	.006	.0045	.060	.195 .185	.0316 .0286	.030 .020	.3315 .3313	.010	1/32 x 37°	.2500-28 UNJF-3A	.0967 .0947	.110 .090	.142 .122	9,300	3,700
10	5/16	.4731 .4658	.4550 .4500	.380	.3120 .3110	.3060 .3020	.007	.0050	.067	.255 .245	.0346 .0316	.040 .030	.4047 .4045	.012	3/64 x 37°	.3125-24 UNJF-3A	.1295 .1270	.130 .110	.180 .160	14,600	5,000
12	3/8	.5592 .5519	.5415 .5365	.420	.3745 .3735	.3680 .3640	.008	.0065	.077	.317 .307	.0385 .0355	.040 .030	.4854 .4852	.012	3/64 x 37°	.3750-24 UNJF-3A	.1617 .1582	.160 .140	.217 .197	21,000	7,200

- GENERAL NOTES:**
- Head edge out of roundness shall not exceed "F".
 - Concentricity: Conical surface of head to "D" diameter within .003 FIM.
 - "H" is dimensioned from maximum "D" diameter.
 - Dimensions are in inches and to be met after finish, except for "HY" code to be met before application of sealant.
 - Surface texture per ASME B46.1.
 - Hole preparation per NAS618.
 - Head protrusion measurement in accordance with Boeing D-11805, Inspection Method A.
 - Curved or flat edge manufacturer's option.
 - After February, 21st of 2015, HI-KOTE™ 1 aluminum pigmented coating per Hi-Shear Spec. 294 will be replaced by REACH compliant HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294 on fasteners coated in UK and European Union.

MATERIAL: 6AL-4V titanium alloy per AMS4928 or AMS4967.

HEAT TREAT: 95,000 psi shear minimum.

- ⑨ **FINISH:**
- HST331AG(-) = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.
 - HST331BJ(-) = I.V.D. aluminum coating per MIL-DTL-83488, Type II, Class 3, and cetyl alcohol lube per Hi-Shear Spec. 305.
 - ⑨ HST331HE(-) = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305. Top of head shall be painted in accordance with BAC5684, Type I. No overspray is allowed except in the "Z" land area.
 - ⑨ ④ HST331HY(-) = HI-KOTE™ 1 or HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color orange on thread end, and apply Precoat No. PR1436G sealant (.002-.005 thick) and cetyl alcohol lube per Hi-Shear Spec. 305.
 - HST331NAG(-) = HI-KOTE™ 1 NC aluminum pigmented coating per Hi-Shear Spec. 294, with color orange on thread end, and cetyl alcohol lube per Hi-Shear Spec. 305.

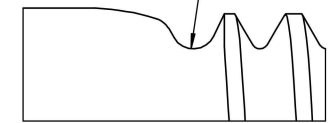
SPECIFICATION: Boeing Specification BPS-F-67, except as noted.

CODE: First dash number indicates nominal diameter in 1/32nds. Second dash number indicates maximum grip in 1/16ths. See Finish note for explanation of code letters.

**HOW TO ORDER
EXAMPLE:**

Pin Part Number
HST331AG8-8
8/16 or 1/2 Maximum Grip Length
8/32 or 1/4 Nominal Diameter Pin
Finish Code
Pin Basic Part Number

THIS AREA OF SPECIAL CONFIGURATION AND COLD WORKING TO MEET PHYSICAL REQUIREMENTS



VIEW A

HI-LITE™ THREAD TRANSITION AREA
SEE SPECIFICATION FOR INSPECTION

"HI-LITE", "HST", AND "HI-KOTE",
ARE TRADEMARKS OF HI-SHEAR CORPORATION

DRAWN BY J. OBISPO	DATE 1996-12-17	TITLE HI-LITE™ PIN 100° FLUSH CROWN SHEAR HEAD TITANIUM 1/16 GRIP VARIATION (BOEING SPECIAL)
APPROVED E. E. B.	DATE 1996-12-17	
REVISION 9	DATE K. PHAM 2022-03-15	
DRAWING NUMBER HST331		1 OF 1